

**SUBSTITUTE ABSTRACT OF THE DISCLOSURE**

The invention relates to a method for controlling the homogeneity of the temperature of metallurgical products (B) in a reheating furnace (5) fitted with lateral burners. According to said method, the lateral burners are operated by on/off control, and the operating time and the down time of each burner is regulated in order to obtain the desired temperature. Inshot burners (1-4) are used as the lateral burners. Said burners are operated either at a speed which is close to the maximum speed or at the maximum speed, and the ignition order of the burners (1-4) is selected in such a way as to stimulate the stirring and circulation of the fumes in order to reduce the hot spot of the flame and to improve the homogeneity of the temperature of the walls of the furnace and the products.